



Attorney Docket No. 5051-606

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Franzen et al.

Serial No.: 10/669,401

Filed: September 23, 2003

For: SURFACE PLASMON RESONANCE SYSTEMS AND METHODS HAVING A  
VARIABLE CHARGE DENSITY LAYER

Group Art Unit: 2878

Examiner: To Be Assigned

Confirmation No.: 3963

Date: February 24, 2004

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(b)**

Sir:

Attached is a list of documents on Form PTO-1449, together with a copy of any listed foreign patent document and/or non-patent literature. A copy of any listed U.S. patent and/or U.S. patent application publication is not provided herewith in accordance with the waiver by the U.S. Patent and Trademark Office of requirements under 37 C.F.R. § 1.98(a)(2)(i) for all U.S. national patent applications filed after June 30, 2003 and for all international applications that have entered the national stage under 35 USC § 371 after June 30, 2003.

It is requested that these documents be considered by the Examiner and officially made of record in accordance with the provisions of 37 C.F.R. § 1.56 and Section 609 of the MPEP.

No fee is believed due. However, the Commissioner is hereby authorized to charge any deficiency or credit any overpayment to Deposit Account No. 50-0220.

Respectfully submitted,

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**Certificate of Mailing under 37 CFR § 1.8**

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on February 24, 2004.

  
Carey Gregory

FORM PTO-1449 U.S. Department of Commerce  
Patent and Trademark Office

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LIST OF DOCUMENTS CITED BY APPLICANT

(Use several sheets if necessary)

Applicants:

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Group

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U. S. PATENTS & PATENT APPLICATION PUBLICATIONS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	1.	6,143,574	11/7/00	Karlsson et al.	436	517	
	2.	6,127,183	10/3/00	Ivarsson et al.	436	34	
	3.	5,965,456	10/12/99	Malmqvist et al.	436	514	
	4.	5,955,729	9/21/99	Nelson et al.	250	282	
	5.	5,641,640	6/24/97	Hanning	435	7.92	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

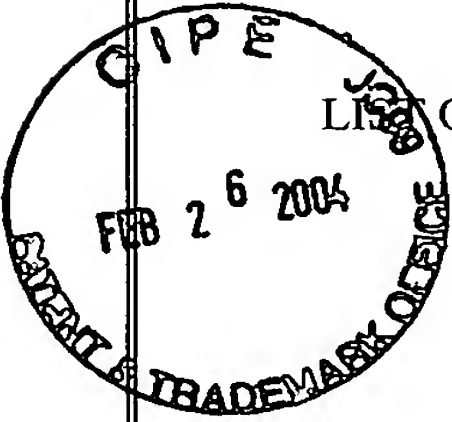
	6.	Hamberg, I.; Hjortsberg, A.; Granqvist, C.; <u>Applied Physics Letters</u> 1982, 40, 362-364.					
	7.	Hjortsberg, A.; Hamberg, I.; Granqvist, C. <u>Thin Solid Films</u> 1982, 90, 323-326.					
	8.	Szczyrbowski, J.; Dietrich, A.; Hoffman, H. <u>Physica Status Solidi (a)</u> 1983, 78 243-252.					
	9.	Brewer, S. H., Franzen, S., "Optical properties of indium tin oxide and fluorine-doped tin oxide surfaces: correlation of reflectivity, skin depth, and plasmon frequency with conductivity," <u>Journal of Alloys and Compounds</u> 338 (2002) 73-79.					
	10.	Hansen, W. <u>Journal of the Optical Society of America</u> 1968, 58 380-390.					
	11.	Fan, J.; Bachner, F.; Foley, G. <u>Applied Physics Letters</u> 1977, 31, 773-775.					
	12.	Stjerna, B.; Olsson, E.; Granqvist, C. <u>Journal of Applied Physics</u> 1994, 76, 3797-3817.					
	13.	Ulman, A. <u>Chemical Reviews</u> 1996, 96, 1533-1554.					
	14.	Lavrich, D.; Wetterer, S.; Bernasek, S.; Scoles, G. <u>Journal of Physical Chemistry B</u> , 1998, 102, 3456-3465.					
	15.	Yan, C.; Zharnikov, M.; Golzhauser, A.; Grunze, M. <u>Langmuir</u> 2000, 16, 6208-6215					
	16.	Bain, C.; Biebuyck, H.; Whitesides, G. <u>Langmuir</u> 1989, 5 723-727.					
	17.	Kohli, P.; Blanchard, G. <u>Langmuir</u> 2000, 16, 8518-8524.					
	18.	Seip, C.; Talham, D. <u>Materials Research Bulletin</u> 1999, 34 437-445.					
	19.	Petruska, M.; Ganucci, G.; Talham, D. <u>Chemistry of Materials</u> 1998, 10 177-189					
	20.	Allara, D.; Nuzzo, R. <u>Langmuir</u> 1985, 1, 52-66.					
	21.	Brewer, S.; Franzen, S; "Indium Tin Oxide Plasma Frequency Dependence on Sheet Resistance and Surface Adlayers Determined by Reflectance FTIR Spectroscopy", <u>J. Phys. Chem B</u> , 2002.					

EXAMINER

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DATE CONSIDERED

Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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	22.	Brewer, S; Brown, D; Franzen, S; "Formation of Thiolate and Phosphonate Adlayers on Indium-tin Oxide: Optical and Electronic Characterization" <i>Langmuir</i> 2002, 18, 6857-6865.
	23.	Allara, D.; Nuzzo, 1985, 1, 45-52.
	24.	SPR - Surface Plasmon Resonance, Surface Science Techniques, An Introduction to SPR-Surface Plasmon Resonance, <a href="http://www.uksaf.org/tech/spr.html">http://www.uksaf.org/tech/spr.html</a> ; 2002.

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